

## Satellite communications system

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**Inventor:** LOPAU HARALD DIPL ING (DE); SCHROETER HEINZ  
DIPL ING (DE)  
**Applicant:** SIEMENS AG (DE)  
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### Abstract of DE3642213

In communications satellites, the emitted transmission power is directly dependent on the power of the received signal, so that the transmission power of the communications satellite is controlled via the transmission power control of the earth stations. Weather-related signal path attenuation must be taken into account in the respective earth stations. In addition to the evaluation of the beacon signal emitted by the satellite, the carrier signal level of different earth stations is evaluated according to the invention in at least one earth station and the attenuation in the signal path between the individual earth stations and the satellite is inferred, since the downlink attenuation from the satellite to the evaluating earth station is identical for all signals.

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